

CURRICULUM VITAE

James E. Mays

Associate Dean for Undergraduate Academic Affairs,
College of Humanities and Sciences;

Associate Professor (Statistics),
Department of Statistical Sciences and Operations Research;
Virginia Commonwealth University

Education:

Ph. D. Statistics	September 1995 Virginia Polytechnic Institute and State University
M. S. Statistics	December 1991 Virginia Polytechnic Institute and State University
B. S. Mathematics	May 1990 (<i>summa cum laude</i>) Virginia Polytechnic Institute and State University

Academic Appointments / Experience:

Associate Dean for Undergraduate Academic Affairs, College of Humanities and Sciences (H&S), VCU	August 2009-present
Assistant Dean for Undergraduate Academic Affairs, College of Humanities and Sciences (H&S), VCU	August 2008-August 2009
Associate Professor (in Statistics), VCU - tenure granted in Spring 2002	August 2002-present
Assistant Professor (in Statistics), VCU	August 1996-August 2002
Visiting Assistant Professor in Statistics, Virginia Tech	August 1995-August 1996
Graduate Teaching Assistant (Instructor), Virginia Tech	August 1991-December 1994
Consultant, Statistical Consulting Center, Virginia Tech	August 1991-May 1996
Graduate Research Assistant, Virginia Tech	January-June 1992

Honors/Awards:

Grace E. Harris Leadership Institute (VCU Leadership Development Program), Class of 2009.

Nominated for the 2008 College of H&S Distinguished Service Award.

Faculty Author Recognition by College of H&S (each year 2000-2007).

Mu Sigma Rho National Statistical Honor Society (1991-present).

Phi Beta Kappa national honor society (1989-present).

Phi Kappa Phi national honor society (1989-present).

SERVICE

University Service:

Academic Regulations Appeals Committee (H&S representative) (Fall 2008-present).

Academic Regulations Committee (H&S representative) (Spring 2009-present).

New Student Orientation Committee / New Student Programs Advisory Board (H&S representative) (Fall 2008-present).

Degree Audit Project Management Team (H&S representative) (Fall 2008-present).

Phi Kappa Phi Executive Committee (V.P. for Public Relations 2013-15, President-elect 2015-16)

Quality Enhancement Plan (QEP) Core Curriculum/General Education Work Group (2013-14)

Summer Program Task Force (2014-present).

VCU Career Council (2014-present).

SACS Tenth Year Reaffirmation Planning Team (2013-2014).

Pre-Health Professions Pipeline Task Force (2013-15).

Task Force on Consortial and Contractual Agreements (2013-15).

Provost's Global Advisory Council (2013-present).

Internationalization Task Force (2013-2015).

International Students and Scholars Advisory Panel (2013-present).

Military Student Services Advisory Committee (2013-14).

University Calendar Committee (2012-present).

University Assessment Council (2010-13).

Banner Enforced Prerequisite Checking Steering Committee (2010-11).

Center for Teaching Excellence Junior Faculty Mentor (2005-06, 2006-07).

Faculty Senate (H&S senator) (2002-2005).

- Faculty Senate subcommittee for Student Affairs (2002-2005), co-chair in 2004-2005.

Core Competency Assessment team—oral communication assessment; evaluation of oral presentations of students in various courses (Spring 2006).

Steering committee for the creation of a Phi Beta Kappa chapter at VCU (2005-2007).

University Faculty Mentor (1999-2008); use of instructional technology in the classroom and other computing concerns.

University Task Force on Long-Range Planning Process for Public Service and Outreach (1998-99).

College Service:

H&S Undergraduate Think Tank (2014-present).

Interim Director, B.I.S. in Liberal Studies for Early and Elementary Education (2013-14).

Coordinator of H&S Undergraduate Academic Committee (UAC) (Fall 2008-present).

Chair, College of H&S Undergraduate Academic Committee (2004-08). Member, 2000-08.

Co-chair, College of H&S General Education Steering Committee (2007-08).

College of H&S General Education Subcommittee – Science and Technology.

College of H&S General Education Subcommittee – Foreign Language.

College of H&S Grade Appeal Committee, Chair (Spring 2003).

College of H&S Phi Kappa Phi Scholarship Selection Committee (2001-08); applications reviewed: 12, 26, 26, 6, 25, 18, 19, 9.

H&S College Awards Committee (1999-2000, 2001-02); nominations reviewed: 32, 42.

Departmental Service:

Departmental Undergraduate Curriculum Committee (1998-2008).

Chair, Search Committee for tenure-track Assistant Professor in statistics (Spring 2006).

Chair, Peer Review Committee for the Promotion of Dr. Anthony Sherman (Fall 2004).

- Member of three departmental Promotion and Tenure Peer Review Committees.

Department Assessment Task Force, Chair (quantitative assessment report for 100 and 200 level mathematical sciences courses; completed July 2001) (2000-01).

STAT 208 Coordinator (development & maintenance of this gen ed course) (1998-2008).

Departmental Undergraduate Credentials Committee, Co-Chair for applications (1997-98).

Departmental Testing and Placement Committee (1996-97).

Inter-departmental Service:

56¼ combined hours of consulting with graduate students in Biology, Engineering, Environmental Sciences, Public Policy and Administration, and Criminal Justice to aid in the statistical analysis for their dissertation or thesis projects (August 1996-present).

Meeting for “Exchange with Community College Faculty” to discuss equivalence of Math and Science courses that may transfer to VCU. Department representative, 9/23/05.

Member of two Promotion and Tenure Peer Review Committees outside of department.

Service to Professional Organizations:

Reviewer for *W. H. Freeman Publishers*. Textbook: Statistics Concepts and Controversies, Seventh edition, by Moore and Notz, 2008.

Reviewer for the journal *Communications in Statistics: Theory and Methods*, 2007.

Reviewer for the journal *Computational Statistics and Data Analysis*, 2005.

Reviewer for *Duxbury (Thomson Brooks/Cole) Publishers*. Textbook: Mathematical Statistics with Applications, Sixth edition, by Wackerly, Mendenhall, and Scheaffer, 2005.

Reviewer for the journal *Nonlinear Analysis*, 2000.

Reviewer for *McGraw-Hill Publishers*. Reviewed textbook Elementary Statistics: A Brief Version, by Allan Bluman, 1999.

Reviewer for the *Journal of Statistical Computation and Simulation*, 1999.

Reviewer for *Canadian Journal of Forest Research*, 1998.

Virginia Academy of Science:

- President of Statistics section, 2001-02
- Vice President of Statistics section, 2000-01
- VAS Councilor for Statistics section, 2003-2004, 2007.
- ASA chapter representative of Statistics section, 2002-03

Editor for Statistics section of the *Virginia Journal of Science* (1998-2000).

Community Service:

Intel ISEF (International Science and Engineering Fair) Finalist Judge at the Metro Richmond Science Fair (2005).

Judge, Metro Richmond Science Fair (1997-2002, 2004-2015).

Reader for Virginia Junior Academy of Science, papers on Math/Statistics (1997-2004).

Represented Department (statistical demonstration) at the Science Museum of Virginia for National Science and Technology Week (1997-2003).

Leadership positions for Westover Hills United Methodist Church, Richmond, VA; finance chair (2012-present), lay leader (2011-2012), staff/parish relations chair (2008-2011).

SCHOLARSHIP

Select Publications (complete listing available upon request):

Harris, Shelley A., P. J. Villeneuve, C. D. Crawley, J. E. Mays, R. A. Yeary, K. A. Hurto, and J. D. Meeker (2010), "A National Study of Exposure to Pesticides Among Professional Applicators: An Investigation Based on Urinary Biomarkers," *Journal of Agricultural and Food Chemistry*, **58 (18)**, 10253-10261.

Kroos, D., J. E. Mays, and S. A. Harris (2010), "A Model to Predict 24-h Urinary Creatinine Using Repeated Measurements in an Occupational Cohort Study," *Journal of Exposure Science and Environmental Epidemiology*, **20**, 516-525.

Walker, E. L., D. L. Green, B. A. Starnes, J. B. Birch, and J. E. Mays (2004), "Model Robust Regression for Instrument Calibration," extended abstract from 24th AIAA Aerodynamic

Measurement Technology and Ground Testing Conference paper, published by the American Institute of Aeronautics and Astronautics, Inc., 10 pages.

Mays, J. E. and J. B. Birch (2002), "Smoothing for Small Samples with Model Misspecification: Nonparametric and Semiparametric Concerns," *Journal of Applied Statistics*, **29**, 1023-1045.

Mays, J. E. (2001), "Capturing Nonconformity Points in Regression," *InterStat*, published online at <http://interstat.stat.vt.edu/interstat/ARTICLES/2001/abstracts/G01003.html-ssi>, August 2001 #3, 1-25.

Mays, J. E., J. B. Birch, and B. A. Starnes (2001), "Model Robust Regression--Combining Parametric, Nonparametric, and Semiparametric Methods," *Journal of Nonparametric Statistics*, **13**, 245-277.

Mays, J. E., J. B. Birch, and R. L. Einsporn (2000), "An Overview of Model-Robust Regression," *Journal of Statistical Computation and Simulation*, **66**, 79-100.

Doruska, P. F. and J. E. Mays (1998), "Crown Profile Modeling of Loblolly Pine by Nonparametric Regression Analysis," *Forest Science*, **44**, 445-453.

Select Presentations: (complete listing available upon request):

"SEM Across the Institution (Parts 1 and 2)," jointly with Luke D. Schultheis (Strategic Enrollment Management), Sybil Halloran (Admissions), Tom Klug (Marketing Communications), and Kathleen Shaw (Planning & Decision Support), November, 2013, AACRAO SEM Conference, Chicago, IL.

"Model Robust Regression for Instrument Calibration," by Mays, J. E., *Southern Regional Council on Statistics (SRCOS) 2007 Summer Research Conference*, Richmond, VA, June 2007 (*invited paper*).

"A Model to Predict 24-hour Urinary Creatinine Level Using Repeated Measurements in an Occupational Cohort Study," by Mays, J. E., Kroos, D., and Harris, S. A., invited poster presentation at the *17th Annual Conference of the International Society of Exposure Analysis*, Durham, NC, October 14-18, 2007.

"Small-Sample Model-Robust Confidence Intervals in Regression," August 2001 Joint Statistical Meetings, Atlanta, Georgia (contributed paper).

- runner-up for the *ASA Section on Physical and Engineering Sciences' (SPES) Outstanding Presentation Award* for this talk. Talk judged by peers to be second best of forty talks given in SPES-sponsored contributed paper sessions at the 2001 Joint Statistical Meetings.

"Smoothing for Small Samples with Model Misspecification: Nonparametric and Semiparametric Concerns," August 1999 Joint Statistical Meetings, Baltimore, Maryland (contributed paper).

- received the *ASA Section on Physical and Engineering Sciences' (SPES) Outstanding Presentation Award* for this talk. Talk judged by peers to be the best of sixty-two talks

given in SPES-sponsored contributed paper sessions at the 1999 Joint Statistical Meetings.

Research Grants:

Howard Hughes Medical Institute (HHMI) Inclusive Excellence Award for “engaging all students in science.” Invited to submit a full proposal for review, due October 2016.

PA-99-143: Occupational Safety and Health Research, NIOSH/NIH, “Pesticide Dose Monitoring in Turf Applicators,” (jointly with S. A. Harris, J. C. Fox, C. Crawley, and R. A. Yeary). July 2002-June 2005, extended through 2006. **Award:** \$604,310.

TEACHING

Courses Taught (at VCU):

<u>Course</u>	<u>Title</u>	<u># of sections</u>
STAT 208	<i>Statistical Thinking (Lecture, Lab)</i>	(32, 62)
STAT 210	<i>Basic Practice of Statistics (Lab)</i>	9
STAT 213	<i>Introduction to Statistics</i>	2
STAT 214	<i>Applications of Statistics</i>	1
MATH 309	<i>Introduction to Probability Theory</i>	3
STAT 404	<i>Introduction to Statistical Inference</i>	3
ENVS 603	<i>Environmental Research Methods</i>	9
STAT 744/644	<i>Regression II / Advanced Regression</i>	17
STAT 697	<i>Directed Research</i>	
	<i>Time Series and Spectral Analysis</i>	1
	<i>Repeated Measures/Mixed Models</i>	1
STAT 698	<i>Thesis</i>	8
MATH 001	<i>Elementary Algebra (Math Lab)</i>	1
MATH 100	<i>Unitized Math (Math Lab)</i>	7
MATH 141	<i>Algebra w/ Applications (Math Lab)</i>	3

Teaching Publications:

Hutchinson, J. R., J. E. Mays, and L. J. Moriarty, “Technological Aids for Teaching Statistics in the 21st Century,” chapter in Criminal Justice Technology in the 21st Century, Second edition (2005): 42-54, Eds. L. J. Moriarty and D. L. Carter, Springfield, IL: Charles C. Thomas Publishing, 2005. (peer reviewed)

Hutchinson, J. R., J. E. Mays, and L. J. Moriarty, “Teaching Statistics in the 21st Century: Technology in the Classroom,” chapter in Criminal Justice Technology in the 21st

Century (1998): 35-46, Eds. L. J. Moriarty and D. L. Carter, Springfield, IL: Charles C. Thomas Publishing, 1998. (peer reviewed)

Mays, J. E., W. S. Street IV, and R. E. Johnson, "A Guide to Statistical Thinking." Five editions. W. H. Freeman and Company: New York, NY (2003, 2004, 2005, 2007, 2009).

Mays, J. E. and R. E. Johnson, "A Supplement to STAT 208: Statistical Thinking." Six editions. Thompson Learning Custom Publishing, Cincinnati, OH (1997-2001).

Johnson, R. E. and J. E. Mays, "Statistics Course Development Team" report. In *VCEPT Voice Newsletter*, Fall 1998.

Teaching Grants/Activities:

Small Teaching Grant through the VCU Center for Teaching Excellence, "Enriching Summer Statistics Classes Through the Use of CPS" (jointly with Dr. W. Scott Street, IV). January-December 2005. **Award:** \$3,500.

Small Teaching Grant through the VCU Center for Teaching Excellence, "Incorporating Computer-Based Learning into a General Education Statistics Course (STAT 208)." March-July 2001. **Award:** \$3,500.

Faculty Mentoring Program, through the Instructional Development Center, Office for Information Technology, Virginia Commonwealth University, "Web-based Demonstrations and Experiments to Enhance the Understanding of Statistical Concepts," (jointly with Dr. Steven Rein), May, 1997. **Award:** laptop computer, accessories, and software.

"Summer Symposium in Mathematics and Science for Teachers," sponsored by the *Urban Teachers Institute*, 1 week in June, 2007 and 2008. (Organized and led section on exploring topics [probability] with public school teachers in an urban setting.)